

Frequency Range

108.1 to 111.95MHz (Localizer), 325.15 to 335MHz (Glide Path), 75MHz (Marker Beacon), 108.0 to 118MHz (VOR)

RF Level Range

-90 to 20dBm (Localizer, VOR), -80 to 20dBm (Glide Path, Marker Beacon)

Channel Spacing

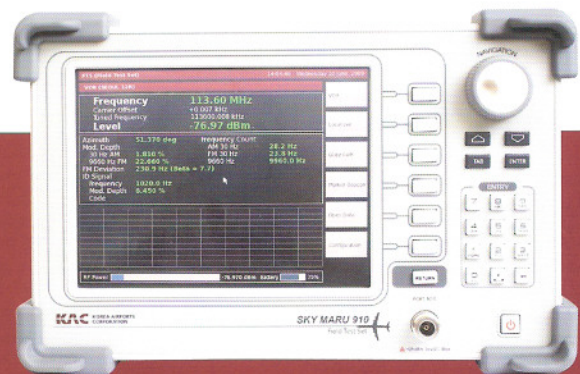
50kHz (Localizer, VOR), 150kHz (Glide Path)

Display

8.4 inch TFT Color LCD (800x600) Touch Screen

User Interface

USB 2.0, Ethernet, Video

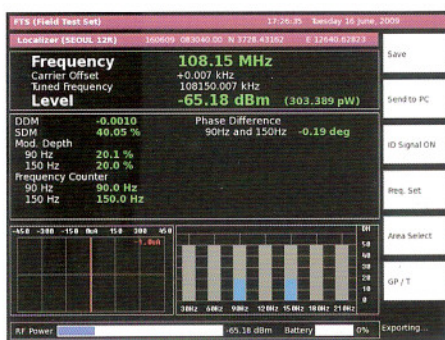


Sky MARU 910-FTS System

FTS

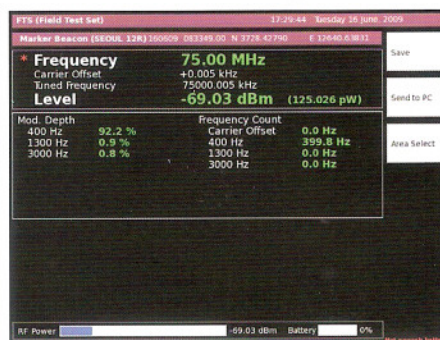
Field Test Set

MEASURED PARAMETERS



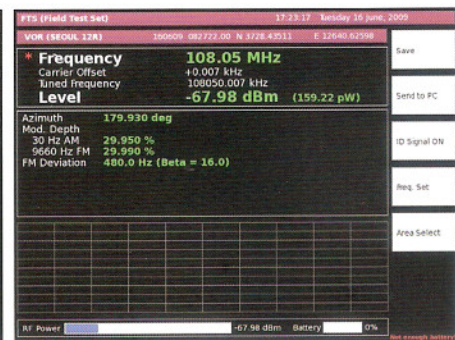
Localizer & Glide Path Mode

- DDM, SDM
- 90Hz, 150Hz Modulation Depth
- Carrier Offset and Frequency of 90 Hz/ 150 Hz
- RF Signal Level
- Frequency, Morse Code and Modulation Depth of ID
- Display of Phase Difference of 90 Hz/ 150 Hz



Marker Beacon Mode

- AM Modulation Depth for 400 Hz/ 1300 Hz/ 3000 Hz
- Carrier Offset and Frequency of 400 Hz/ 1300 Hz/ 3000 Hz
- RF Signal Level



VOR Mode

- Azimuth
- 30 Hz AM Modulation Depth
- 9960 Hz Modulation Depth
- FM Deviation
- RF Signal Level
- ID Frequency, Morse Code, Modulation Depth
- Carrier Offset, AM/FM 30 Hz, 9960 Hz Frequency

FTS

Technical Specifications

MEASUREMENT RANGE

Impedance	50 Ohm
Input Connector	N-Type, Female
Output Connector	USB, Ethernet (RJ45), RS-232 (9 pin D-sub)
Frequency Range	108.1 to 111.95MHz (Localizer), 325.15 to 335MHz (Glide Path), 75MHz (Marker Beacon), 108.0 to 118MHz (VOR)
Channel Spacing	50kHz (Localizer, VOR), 150kHz (Glide Path)
RF Level Range	-90 to 20dBm (Localizer, VOR) -80 to 20dBm (Glider Path, Marker Beacon)
DDM Range	0 to 40% (Localizer), 0 to 80% (Glide Path)
DDM Resolution	0.001% (Localizer, Glide Path)
SDM Range	0 to 95% (Localizer, VOR)
SDM Resolution	0.01% (Localizer, VOR)
AM Depth of Modulation Range	10~50% (VOR), 0~50% (Localizer, Glide Path), 80~100% (Marker Beacon)
Bearing Resolution	±0.001°
Ident Frequency	1020Hz (Localizer, VOR)
Ident Depth of Modulation	1 to 55% (Localizer, VOR)

MEASUREMENT ACCURACY

Frequency Tolerance	±0.0004% (Localizer, Glide Path, VOR)
DDM Error	±0.05% (Localizer, Glide Path)
SDM Error	±0.2% (Localizer, Glide Path)
AM Depth of Modulation Error	±0.1% (VOR), ±0.2% (Localizer, Glide Path, Marker Beacon)
FM Depth of Modulation Error	±0.1% (VOR)
Bearing Error	±0.05° (VOR)
Ident Depth of Modulation Error	0.5%

GENERAL DATA

Operating Temperature Range	-10 to +40°C
Storage Temperature Range	-20 to +60°C
Graphic User Interface	8.4 inch TFT Color LCD (800x600) Touch Screen
External Charger	115 VAC and 230 VAC Nominal Voltage
Battery	Over 4 Hours
Dimensions (W x H x D)	339 x 270 x 179
Weight	7.5kg (without Battery)
Antenna Type	Dipole (GP), with Screw Extension for LLZ/VOR

OTHER FEATURES

- Compact housing design for mobile use, robust and splash proof (only if the bag is used)
- User-friendly GUI interface
- Display of battery level
- Remote control of the device through the RS-232 port
- Measurement data transfer over the ports (RS-232, USB)
- High long-term stability and reproducibility through digital signal processing from the IF position
- All measurement data of a mode (ILS, VOR, Marker Beacon) is shown simultaneously in the display and may be stored in the internal data memory
- Display of the harmonic distortion (ILS-Distortion) in ILS mode
- Simultaneous and separate measurement of the course and clearance signals is possible in ILS mode through digital demodulation and filtering in the DSP
- Simultaneous measurement of the Localizer and Glide Path signals in ILS mode
- Measurement of distance (connecting Wheel Encoder)
- Measurement of the carrier frequency and the modulation frequencies with the accuracy of the reference oscillator
- Automatic assignment of the Glide Path to the corresponding Localizer frequencies, as under ICAO Annex 10
- Data Logger:
 - All measured values of the modes ILS, VOR, Marker Beacon may be simultaneously stored, even at the highest sampling rate, Single and continuous recording of measured values,
 - Graphic display of all data lists.
- Built-in speaker